

U-Value Requirements

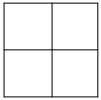
External Wall	-	0.13 W/m²K
Ground Floor	-	0.10W/m²K
Roof	-	0.1 W/m²K
Windows/Curtain Walling	-	1.2 W/m²K
Glass Doors	-	1.2 W/m²K
Rooflights	-	1.2 W/m²K

Air Permeability (@ 50pa) - 3m³/h/m²

Window G-Values

TBC by TB&A - 0.5

Roof Types



Flat Roof System - Inverted Roof on composite decking - refer to landscape drawings for design internet for roof terrace finishes. Inverted Roof to Achieve U - Value of 0.1 50mm Precast Concrete Paving Slabs on Pedestal Pro Paving Supports. 300mm XPS insulation (160mm + 140mm) Alumasc Hydrotech Hot Melt Membrane.



Pitched Standing Seam - Standing Seam Roof to Achieve U - Value of 0.1. Euroclad Elite S with perforated metal deck over large span sports hall and activity studio to assist with acoustics

Roof Access

Staircase up to main roof level for maintenance access refer to drawing 3510

Roof Access hatch with fixed ladder for escape only - Bilco E-50TB 915x915mm or similar

Fixed ladder for escape only from lower roof to upper roof

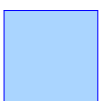
Allow for clip on fixed walkways to maintain PV panels - layout to be developed with MEP Engineers PV and roof plant layout

Rooflights

Refer to drawing ending in 3030 for details Allow for a modular Velux Longlight system or similar with low monoptich.

Indicative line of safety guardrail to rooflights, freestanding or clipped to seams of roof as appropriate

All Metal Work finishes exposed on the roof are to achieve Marine Grade level suitable to the location's environment



MEP Plant

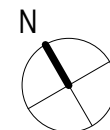
Stage 3 Issue

Design is to be fully coordinated during Stage 4.

Details subject to further coordination and design input from relevant specialist subcontractors and consultants.

All Drawings to be read in conjunction with information and reports from:
Structural & Civil Engineer - Curtins
Fire Engineer - Part B
MEP Engineer - TB&A
Acoustician - Formant

To be read in conjunction with Llangatwg School Stage 3 Interior Design Proposals document.

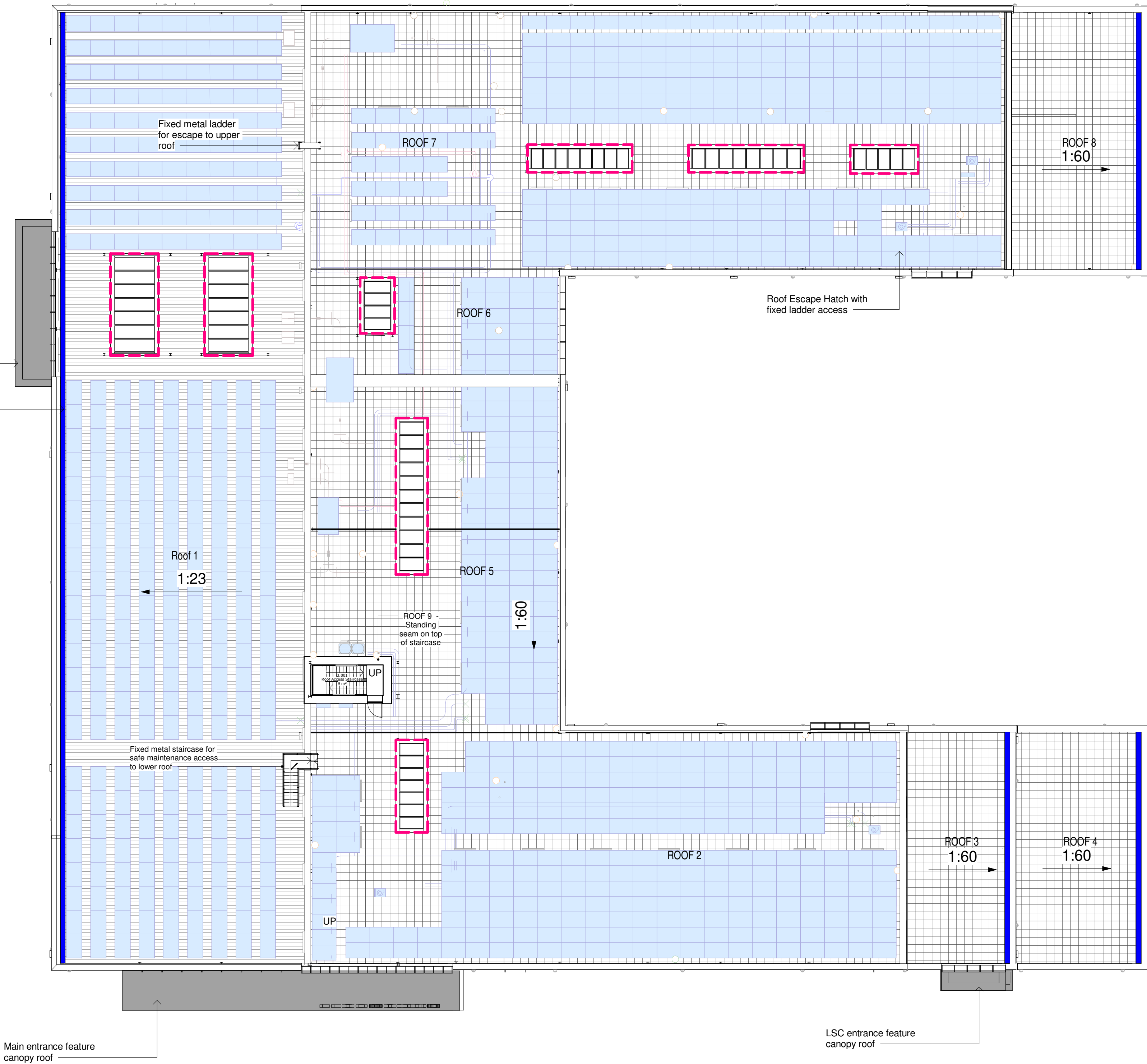


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Project Llangatwg Community School

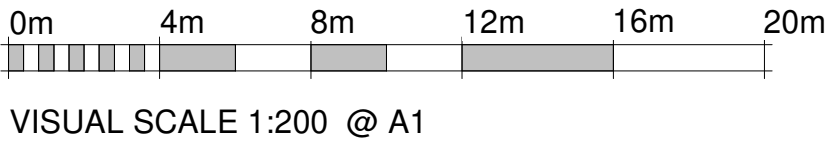
Description Proposed Roof Plan - Planning

Job No. 324012 Drawing No. 26CC07-ASL-31-03-D-A-0104 Revision P5



03 - Proposed Roof Plan

Rev	Description	Drawn	Checked	Date Issued
P1	Issued to design team for comment	VS	AW	10/01/25
P2	Draft issue for stage 2	VS	HW	16/01/25
P3	Draft issue for stage 3 Costing	NW	TY	29/04/25
P4	PAC Submission	NW	VS	14/5/2025
P5	Issue for Planning	AW	VS	25/06/25



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Drawn	MW
Date	May 25
Scale @ A1	As indicated
Status	S4

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